

ABSTRACT OF THE DISCLOSURE

A system and method for transmitting a file stream using quality of service capable links. The system has a network capable of supporting quality of service negotiations and an embedded component capable of negotiating different quality of service levels for a plurality of file streams according to importance of bits to be transmitted. To transmit the compressed data, the embedded component identifies important bits and less important bits in the file stream, negotiates quality of service parameters for a plurality of file streams, divides the important bits and less important bits into different file streams having different quality of service levels, and transmits the streams. On the receiving end, the received streams are synchronized and combined into a single stream for the application to display. The error correction and detection coding is performed by physical layers of the network, not the application or embedded component, thereby improving efficiency.